

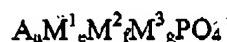
AMENDMENTS TO THE CLAIMS:

This listing of Claims will replace all prior versions, and listings, of Claims in the Application:

Listing of Claims.

1 - 18 (CANCELLED)

19 (PREVIOUSLY PRESENTED): An electrode active material comprising a compound of the formula



wherein

- (a) A is selected from the group consisting of Li, Na, K, and mixtures thereof, where
 $0 < a < 1$;
- (b) M^1 is a +2 oxidation state transition metal, where $e > 0$;
- (c) M^2 is a +2 oxidation state non-transition metal, where $f > 0$; and
- (d) M^3 is a +3 oxidation state non-transition metal, where $g > 0$; and wherein
 $a + 2e + 2f + 3g = 3$, and a, e, f and g are selected so as to maintain electroneutrality of
said compound.

20 (ORIGINAL): An electrode active material according to Claim 19, wherein M^1 is selected from the group consisting of Fe, Co, Ni, Ti, V, Cr, Mn, and mixtures thereof.

21 (ORIGINAL): An electrode active material according to Claim 19, wherein M² is selected from the group consisting of Be, Mg, Ca, Sr, Ba, and mixtures thereof.

22 (ORIGINAL): An electrode active material according to Claim 19, wherein M³ is selected from the group consisting of B, Al, Ga, In and mixtures thereof.

23 (ORIGINAL): An electrode active material according to Claim 19, wherein $0 < (e + f + g) \leq 2$.

24 (ORIGINAL): An electrode active material according to Claim 23, wherein $0.8 \leq (e + f + g) \leq 1.5$.

25 (ORIGINAL): An electrode active material according to Claim 24, wherein $1.0 \leq (e + f + g) \leq 1.5$.

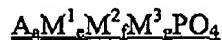
26 - 41 (CANCELLED)

42 (ORIGINAL): An electrode comprising a binder; an electrically conductive carbonaceous material; and an active material of Claim 19.

43 - 44 (CANCELLED)

45 (CURRENTLY AMENDED): A lithium battery comprising:

- (a) a first electrode comprising an active material according to Claim 1 represented by the formula



wherein

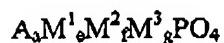
- (i) A is selected from the group consisting of Li, Na, K, and mixtures thereof, where $0 < a < 1$;
- (ii) M¹ is a +2 oxidation state transition metal, where e > 0 ;
- (iii) M² is a +2 oxidation state non-transition metal, where f > 0 ; and
- (iv) M³ is a +3 oxidation state non-transition metal, where g > 0 ; and wherein $a + 2e + 2f + 3g = 3$, and a, e, f and g are selected so as to maintain electroneutrality of said active material;
- (b) a second electrode which is a counter-electrode to said first electrode; and
- (c) an electrolyte between said electrodes.

46 (CURRENTLY AMENDED): A lithium battery [[of]] according to Claim 45, wherein said first electrode is a cathode, and said second electrode is an insertion anode.

47 (CURRENTLY AMENDED): A lithium battery [[of]] according to Claim 46, wherein said second electrode comprises a material selected from the group consisting of a metal oxide, metal chalcogenide, carbon, graphite and mixtures thereof.

48 - 51 (CANCELLED)

52 (PREVIOUSLY PRESENTED): An electrode active material comprising a compound of the formula



wherein

- (a) A is selected from the group consisting of Li, Na, K, and mixtures thereof, where $0 < a < 1$;
- (b) M^1 is Fe^{+2} , where $e > 0$;
- (c) M^2 is a +2 oxidation state non-transition metal, where $f > 0$; and
- (d) M^3 is a +3 oxidation state non-transition metal, where $g > 0$; and wherein $a + 2e + 2f + 3g = 3$; and a, e, f and g are selected so as to maintain electroneutrality of said compound.

53 (PREVIOUSLY PRESENTED): An electrode active material according to Claim 52, wherein M^2 is selected from the group consisting of Be, Mg, Ca, Sr, Ba, and mixtures thereof.

54 (PREVIOUSLY PRESENTED): An electrode active material according to Claim 52, wherein M^3 is selected from the group consisting of B, Al, Ga, In and mixtures thereof.

55 (PREVIOUSLY PRESENTED): An electrode active material according to Claim 52, wherein A is Li.

56 (PREVIOUSLY PRESENTED): An electrode active material according to Claim 52, wherein $0 < (e + f + g) \leq 2$.

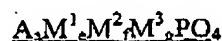
57 (PREVIOUSLY PRESENTED): An electrode active material according to Claim 56, wherein $0.8 \leq (e + f + g) \leq 1.5$.

58 (PREVIOUSLY PRESENTED): An electrode active material according to Claim 57, wherein $1.0 \leq (e + f + g) \leq 1.5$.

59 (PREVIOUSLY PRESENTED): An electrode comprising an active material of Claim 52.

60 (CURRENTLY AMENDED): A lithium battery comprising:

- (a) a first electrode comprising an active material [according to Claim 52]
represented by the formula



wherein

(i) A is selected from the group consisting of Li, Na, K, and mixtures thereof,

where $0 < a < 1$;

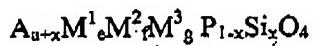
(ii) M^1 is Fe^{+2} , where $e > 0$;

(iii) M^2 is a +2 oxidation state non-transition metal, where $f > 0$; and

(iv) M^3 is a +3 oxidation state non-transition metal, where $g > 0$; and wherein a
 $+ 2e + 2f + 3g = 3$; and a, e, f and g are selected so as to maintain
electroneutrality of said active material;

- (b) a second electrode which is a counter-electrode to said first electrode; and
(c) an electrolyte between said electrodes.

61 (NEW): An electrode active material represented by the formula



wherein

- (a) A is selected from the group consisting of Li, Na, K, and mixtures thereof, where
 $0 < a < 1$ and $0 < x \leq 1$;
- (b) M^1 is a +2 oxidation state transition metal, where $e > 0$;
- (c) M^2 is a +2 oxidation state non-transition metal, where $f > 0$; and
- (d) M^3 is a +3 oxidation state non-transition metal, where $g > 0$;

wherein $a + 2e + 2f + 3g = 3$, and a, x, e, f and g are selected so as to maintain electroneutrality of said electrode active material;

with the proviso that when M^1 is Fe or Mn, M^2 is not Mg, Zn or Ca and M^3 is not Al, Ga or Zn.

62 (NEW): An electrode active material according to Claim 61, wherein M^1 is selected from the group consisting of Fe, Co, Ni, Ti, V, Cr, Mn, and mixtures thereof.

63 (NEW): An electrode active material according to Claim 61, wherein M^2 is selected from the group consisting of Be, Mg, Ca, Sr, Ba, and mixtures thereof.

64 (NEW): An electrode active material according to Claim 61, wherein M^3 is selected from the group consisting of B, Al, Ga, In, and mixtures thereof.

65 (NEW): An electrode active material according to Claim 61, wherein A is Li.

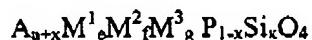
66 (NEW): An electrode active material according to Claim 61, wherein $0 < (e + f + g) \leq 2$.

67 (NEW): An electrode active material according to Claim 66, wherein $0.8 \leq (e + f + g) \leq 1.5$.

68 (NEW): An electrode active material according to Claim 67, wherein $1.0 \leq (e + f + g) \leq 1.5$.

69 (NEW): A battery, comprising:

(a) a first electrode comprising an active material represented by the formula



wherein

(i) A is selected from the group consisting of Li, Na, K, and mixtures thereof, where $0 < a < 1$ and $0 < x \leq 1$;

(ii) M^1 is a +2 oxidation state transition metal, where $e > 0$;

(iii) M^2 is a +2 oxidation state non-transition metal, where $f > 0$; and

(iv) M^3 is a +3 oxidation state non-transition metal, where $g > 0$;

(v) wherein $a + 2e + 2f + 3g = 3$, and a, x, e, f and g are selected so as to maintain electroneutrality of said active material;

(vi) with the proviso that when M^1 is Fe or Mn, M^2 is not Mg, Zn or Ca and M^3 is not Al, Ga or Zn;

(b) said battery further comprising a second electrode which is a counter-electrode to said first electrode; and

(c) an electrolyte.

70 (NEW): A battery according to Claim 69, wherein said first electrode is a cathode, and said second electrode is an insertion anode.

71 (NEW): A battery according to Claim 69, wherein said second electrode comprises a material selected from the group consisting of a metal oxide, metal chalcogenide, carbon, graphite and mixtures thereof.

72 (NEW): A battery according to Claim 69, wherein M¹ is selected from the group consisting of Fe, Co, Ni, Ti, V, Cr, Mn, and mixtures thereof.

73 (NEW): A battery according to Claim 69, wherein M² is selected from the group consisting of Be, Mg, Ca, Sr, Ba, and mixtures thereof.

74 (NEW): A battery according to Claim 69, wherein M³ is selected from the group consisting of B, Al, Ga, In, and mixtures thereof.

75 (NEW): A battery according to Claim 69, wherein A is Li.

76 (NEW): A battery according to Claim 69, wherein $0 < (e + f + g) \leq 2$.

77 (NEW): A battery according to Claim 76, wherein $0.8 \leq (e + f + g) \leq 1.5$.

78 (NEW): A battery according to Claim 77, wherein $1.0 \leq (e + f + g) \leq 1.5$.

79 (NEW): A battery according to Claim 45, wherein M¹ is selected from the group consisting of Fe, Co, Ni, Ti, V, Cr, Mn, and mixtures thereof.

80 (NEW): A battery according to Claim 45, wherein M² is selected from the group consisting of Be, Mg, Ca, Sr, Ba, and mixtures thereof.

81 (NEW): A battery according to Claim 45, wherein M³ is selected from the group consisting of B, Al, Ga, In, and mixtures thereof.

82 (NEW): A battery according to Claim 45, wherein A is Li.

83 (NEW): A battery according to Claim 45, wherein $0 < (e + f + g) \leq 2$.

84 (NEW): A battery according to Claim 83, wherein $0.8 \leq (e + f + g) \leq 1.5$.

85 (NEW): A battery according to Claim 84, wherein $1.0 \leq (e + f + g) \leq 1.5$.

86 (NEW): A battery according to Claim 60, wherein said first electrode is a cathode, and said second electrode is an insertion anode.

87 (NEW): A battery according to Claim 86, wherein said second electrode comprises a material selected from the group consisting of a metal oxide, metal chalcogenide, carbon, graphite and mixtures thereof.

88 (NEW): A battery according to Claim 60, wherein M² is selected from the group consisting of Be, Mg, Ca, Sr, Ba, and mixtures thereof.

89 (NEW): A battery according to Claim 60, wherein M³ is selected from the group consisting of B, Al, Ga, In, and mixtures thereof.

90 (NEW): A battery according to Claim 60, wherein A is Li.

91 (NEW): A battery according to Claim 60, wherein $0 < (e + f + g) \leq 2$.

92 (NEW): A battery according to Claim 91, wherein $0.8 \leq (e + f + g) \leq 1.5$.

93 (NEW): A battery according to Claim 92, wherein $1.0 \leq (e + f + g) \leq 1.5$.